Atty. Docket No.: 082368-002100US Applicant: MOTOKAWA et al. Title: FELINE INFECTIOUS PERITONITIS VACCINE Sheet 1 of 18

ata Me1	g gcc : Ala	aca Thr	cag Gln	gga Gly	caa Gl n	cgc Arg	gtc Val	aac Asn	tgg Trp	gga Giy	gat Asp	gaa Glu	cct Pro	tcc Ser	aaa Lys	48
aga Ara	cgt Arg	gat Asp	cgt Arg	tct Ser	aac Asn	tct Ser	cgt Arg	ggt Gly	cgg Arg	aag Lys	aat Asn	aat Asn	aat Asn	ata ile	cct Pro	96
cti	tca Ser	ttc Phe	ttc Phe	aac Asn	ccc Pro	acc Thr	acc Thr	ctc Leu	gaa Glu	caa G!n	gga Giv	gct Ala	aaa Lvs	ttt Phe	tgg Tro	144
tat	gta	tgt	ccg Pro	aga	gac	ttt	gtt	CCC	aag	gga	ata	ggt	aat	aag	gat	192
cas	caa	att	ggt Gly	tat	tgg	aac	aga	cag	gcg	cgc	ttt	CgC	att	gto	aag	240
ggt	cag	cgt	aag	gaa	ctc	cct	gag	aga	tgg	ttt	ttc	tat	ttc	tta	ggt	288
aca	gga	cct	Lys cat	gct	gat	gct	aaa	ttt	aaa	gat	aag	att	gat	gga	gtc	336
tto	tgg	gtt	His gca	aag	gat	ggt	gcc	atg	aac	aag	cca	aca	tca	ctt	ggc	384
1	-		Ala	•	•	_				-					•	432
Thr	Arg	Gly	Thr caa	Asn	Asn	Glu	Ser	6lu	Pro	Leu	Arg	Phe	Asp	Gly	Lys	480
He	Pro	Pro	Gin	Phe	Gin	Leu	Glu	Val	Asn	Arg	Ser	Arg	Asn	Asn	Ser	528
Arg	Ser	Gly	tct Ser	Gin	Ser	Arg	Ser	Gly	Ser	Arg	Asn	Arg	Ser	Gln	Ser	
Arg	Gly	Arg	caa Gin	GIn	Ser	Asn	Asn	Gin	Asn	Thr	Asn	Val	Glu	Asp	Thr	576
lle	gta Val	gct Ala	gtg Val	ctt Leu	cag Gin	aaa Lys	tta Leu	ggt Gly	gtt Val	act Thr	gac Asp	aag Lys	caa Gin	agg Arg	tca Ser	624
cgt Arg	tct Ser	aaa Lys	tct Ser	aga Arg	gac Asp	cgt Arg	agt Ser	gac Asp	tct Ser	aaa Lys	tct Ser	aga Arg	gac Asp	aca Thr	aca Thr	672
cct Pro	aaa Lys	aac Asn	gcc Ala	aac Asn	aaa Lys	cac Hi s	acc Thr	tgg Trp	aag Lys	aaa Lys	act Thr	gca Ala	ggt Gly	aag Lys	ggt Gly	720
gat Asp	gtg Val	aca Thr	aat Asn	ttc Phe	ttt Phe	ggt Gly	gct Ala	aga Arg	agt Ser	gct Ala	tcg Ser	gct Ala	aac Asn	ttt Phe	ggt Gly	768
gat Asp	agt Ser	gat Asp	ctc Leu	gtt Val	gcc Ala	aat Asn	ggt Gly	aac Asn	gct Ala	gcc Ala	aaa Lys	tgc Cys	tac Tyr	cct Pro	cag Gin	816
ata Ile	gcc Ala	gaa Glu	tgc Cys	gtt Val	cca Pro	tca Ser	gta Val	tct Ser	agc Ser	gtg Val	ctc Leu	ttc Phe	ggt Gly	agt Ser	caa Gin	864
tgg	tcc	gct	gaa Glu	gaa	gct	gga	gat	caa	gtg	aaa	gtc	aca	ctt	act	cac	912
acc	tac	tac	ctg Leu	cca	888	ggt	gat	ECC	aaa	acc	agt	caa	ttc	cta	gaa	960
cag	att	gac	gct Ala	tac	aag	CgC	cct	tca	caa	gta	gct	aag	gaa	cag	agg	1008
aaa	cca	aag	cct Pro	cgc	tct	aag	tct	gct	gat	aag	aag	cct	gag	gaa	ttg	1056
tct	gta	act	ctt	gta	gag	gca	tac	aca	gat	gtg	ttt	gat	2ac	aca	cag	1104
gtt	gag	atg	Leu att	gat	gag	gtt	acg	aac	taa	(SEQ	l D	NO:	1)	(nr	uin	1134
val	GIU	Met	lle	ASP	GIU	val	ihr	ASN	*	(SEC	עו	NO:	2)			

FIG. 1

BEST AVAILABLE COPY

222222	999999	<u> </u>	<u> </u>
H 100 1000 1000 1000	K 199 . 199 . 199 . 199 . 200	296 296 296 296 296 299	377 377 377 377 376 381 382
MATQGQRVNWGDEPSKRRDRSNSRGRKNNNI PLSFFNPTTLEQGAKFWYVCPRDFVPKGIGNKDQQIGYWNRQARFRIVKGQRKELPERWFFYFLGTGPH G Y I S. NI G V. D YY I QP.S NL G V. D Y I S. NL S ST G B D Y I D S NL T Y M R N K Y N S ST T G S NL I Q S NL	ADAKFKOKI DGVFWVAKDGAMNKPTSLGTRGTNNESEPLRFDGKI PPQFQLEVNRSRNNSRSGSRSGSRNRSQSRGR-QQSNNQNTNVEDTI VAVLQK S R T R T R T R N A R R R <tr< td=""><td>LGV-TDKQRSRSKSRDRSDSKSRDTTPKNANKHTWKKTAGKGDVTINFFGARSASANFGDSDLVANGNAAKCYPQIAECVPSVSSVLFGSQWSAEEAGD GE. NQ. P Y S S E QL. Y I P. E P. E. Y S GE. Q. Y S GE. Q. Y S GE. Q. Y S D. E. QO. KE. N. T. I D. E. QO. KE. N. T. I</td><td>QVKVTLTHTYYLPKGDAKTSQFLEQIDAYKRPSQVAKEQRKPRSKSADKKPEE-LSVTLVEAYTDVEDDTQVEMIDEVTN (SEQ ID NO: 2) QVKVTLTHTYYLPKGDAKTSQFLEQIDAYKRPSQVAKEQRKPRSKSADKKPEE-LSVTLVEAYTDVEDDTQVEMIDEVTN (SEQ ID NO: 2) </td></tr<>	LGV-TDKQRSRSKSRDRSDSKSRDTTPKNANKHTWKKTAGKGDVTINFFGARSASANFGDSDLVANGNAAKCYPQIAECVPSVSSVLFGSQWSAEEAGD GE. NQ. P Y S S E QL. Y I P. E P. E. Y S GE. Q. Y S GE. Q. Y S GE. Q. Y S D. E. QO. KE. N. T. I D. E. QO. KE. N. T. I	QVKVTLTHTYYLPKGDAKTSQFLEQIDAYKRPSQVAKEQRKPRSKSADKKPEE-LSVTLVEAYTDVEDDTQVEMIDEVTN (SEQ ID NO: 2) QVKVTLTHTYYLPKGDAKTSQFLEQIDAYKRPSQVAKEQRKPRSKSADKKPEE-LSVTLVEAYTDVEDDTQVEMIDEVTN (SEQ ID NO: 2)
KU-2 Black UCD1 FIPV II FECV II CCV	KU-2 Black UCD1 FIPV II FECV II CCV	KU-2 Black UCD1 FIPV II FECV II CCV	KU-2 Black UCD1 FIPV II FECV II CCV

FIG. 2

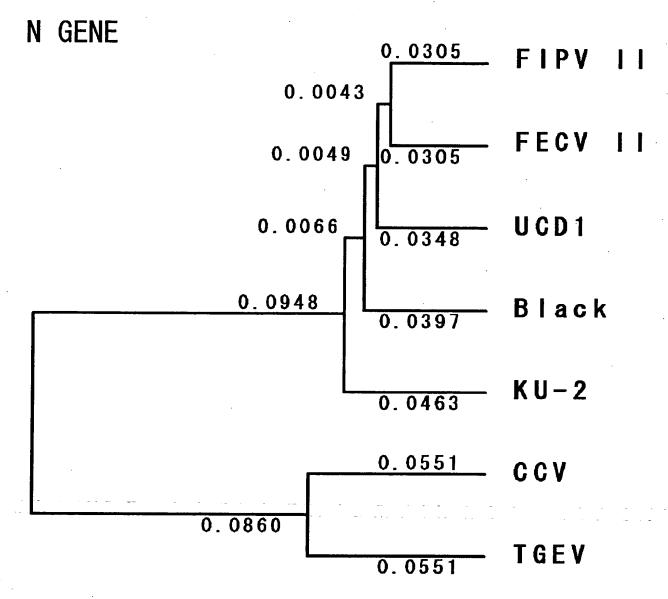


FIG. 3

a b c d e f g h

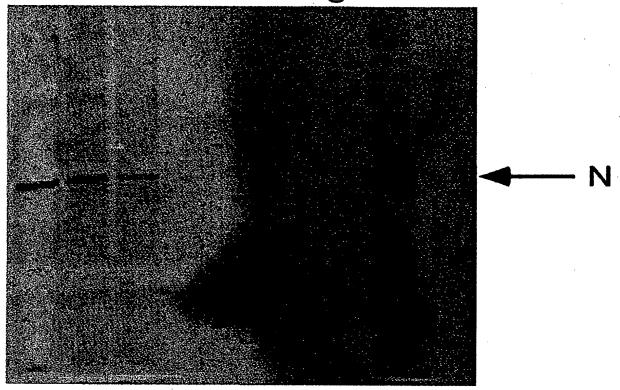


FIG. 4

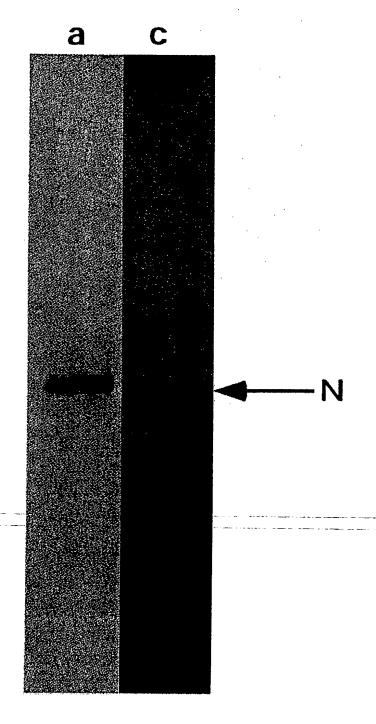
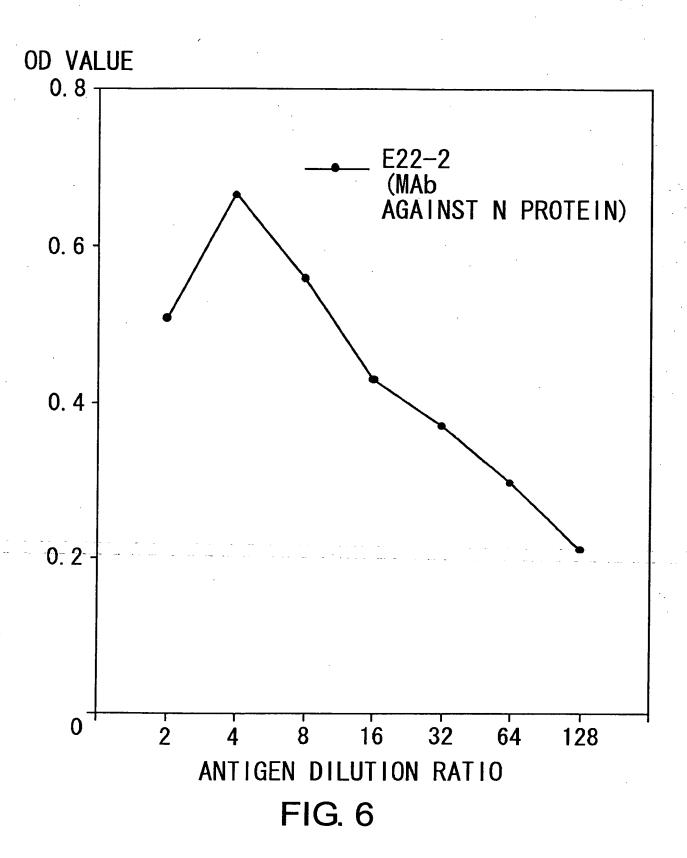


FIG. 5



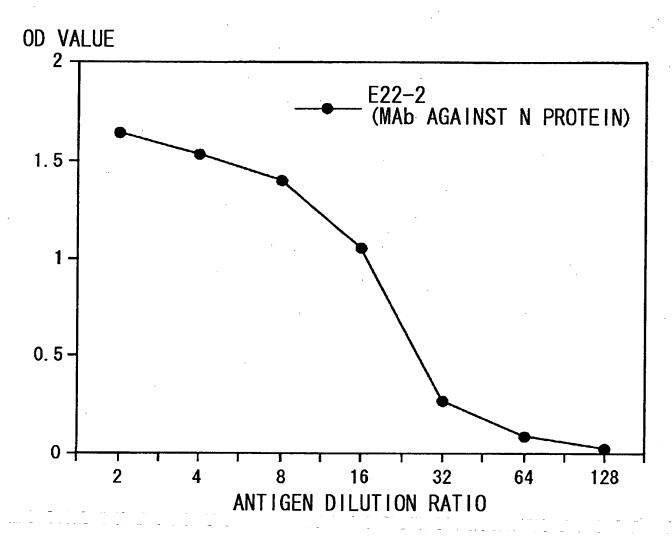
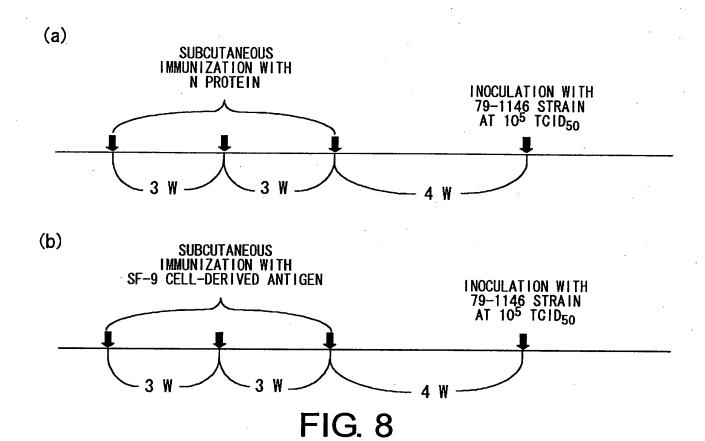
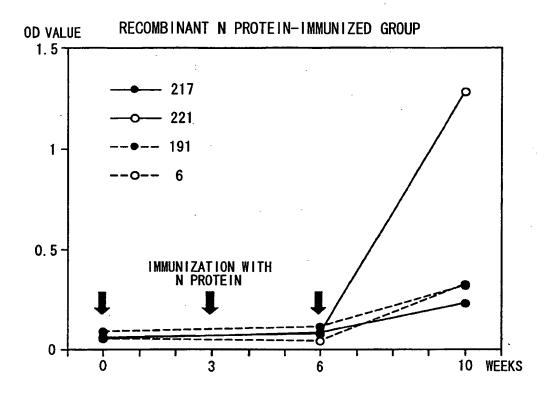


FIG. 7





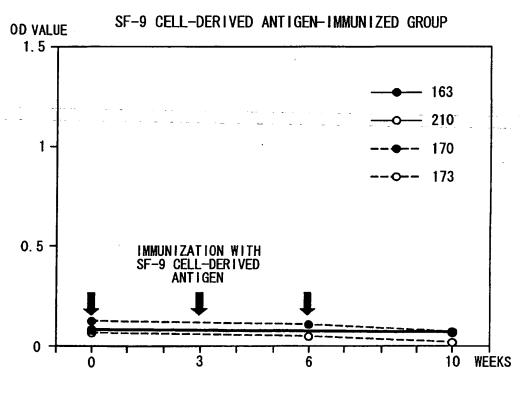


FIG. 9

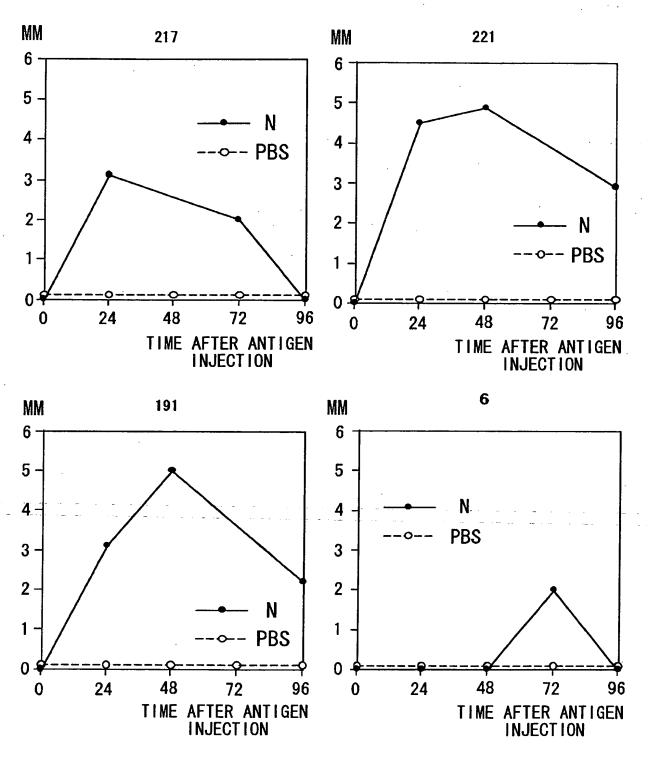


FIG. 10

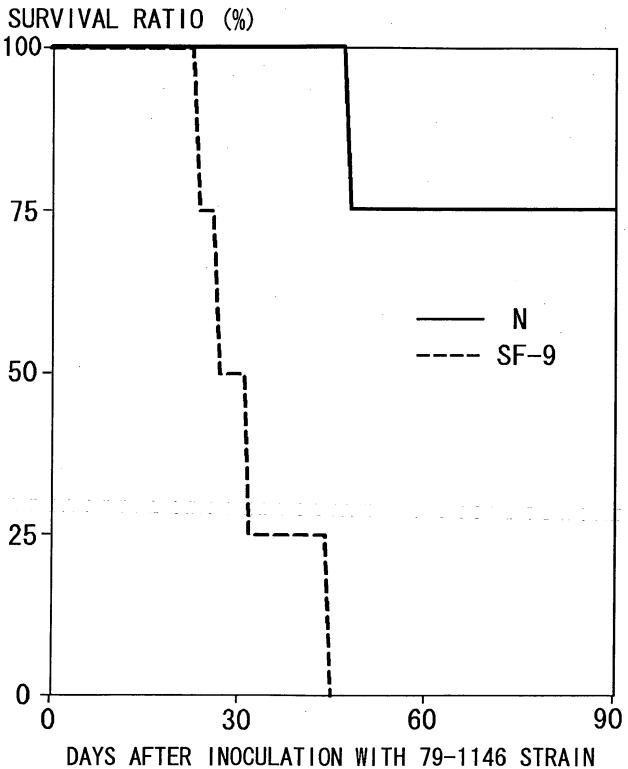
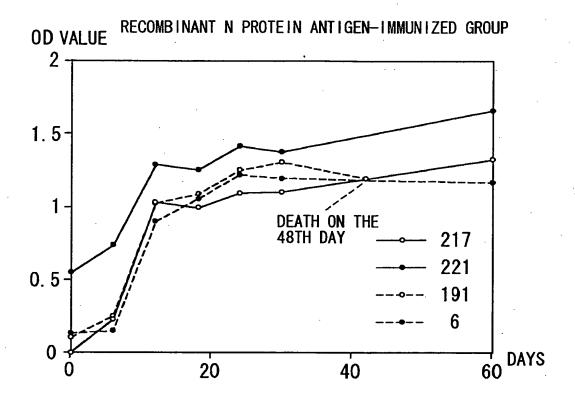


FIG. 11



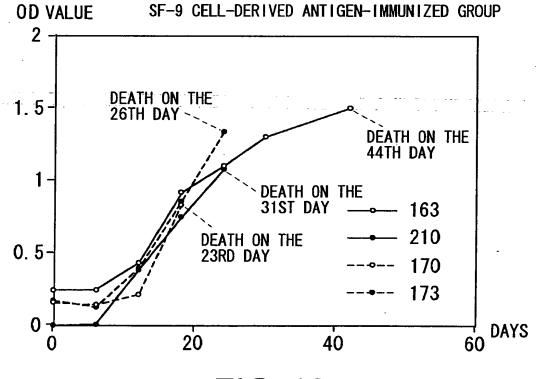
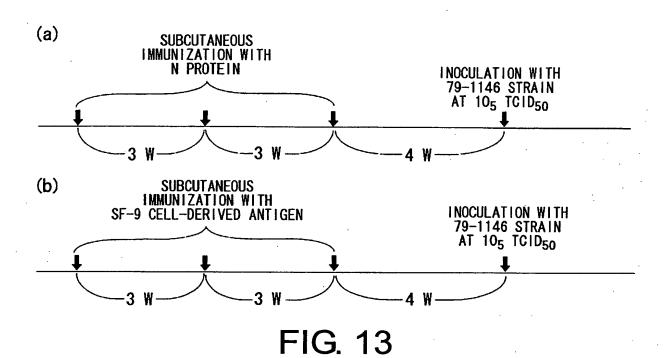
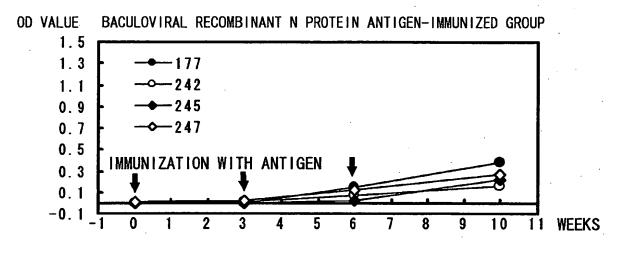
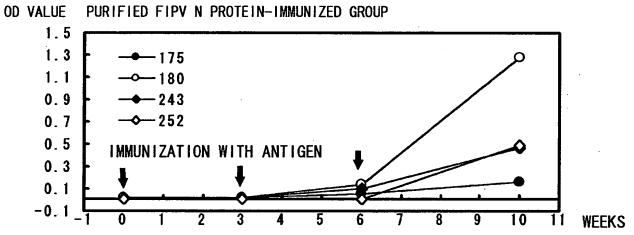


FIG. 12



Atty. Docket No.: 082368-002100US
Applicant: MOTOKAWA et al.
Title: FELINE INFECTIOUS PERITONITIS VACCINE
Sheet 14 of 18





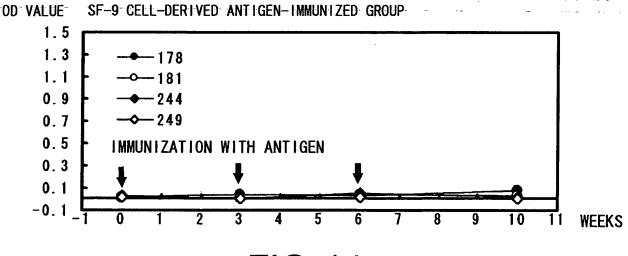
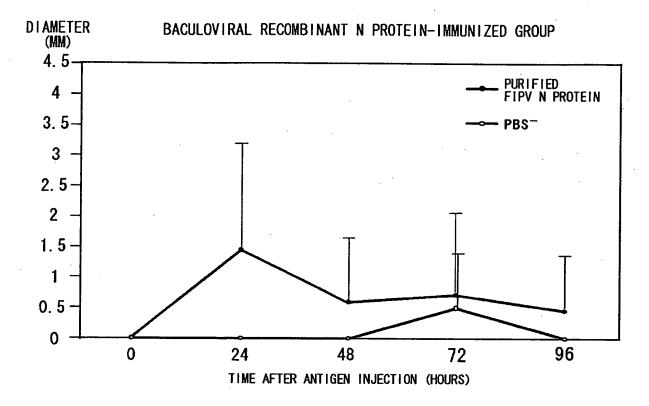


FIG. 14



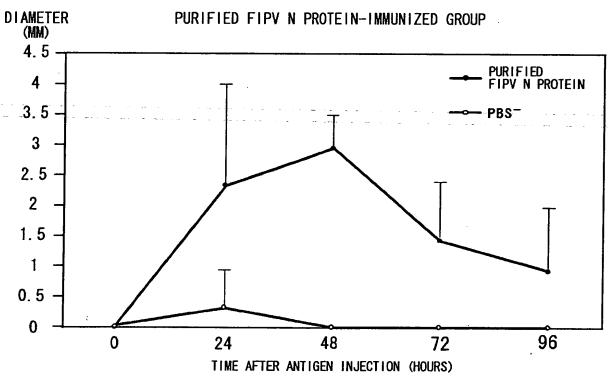


FIG. 15

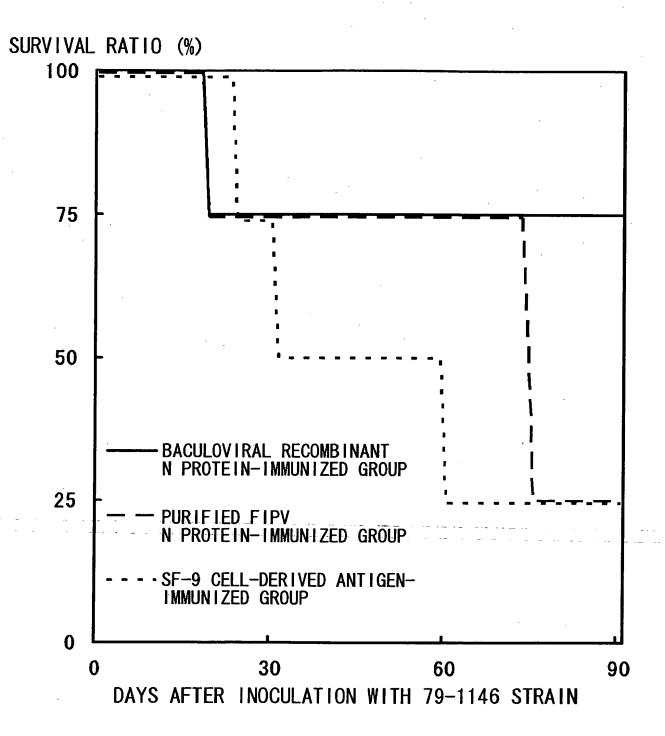
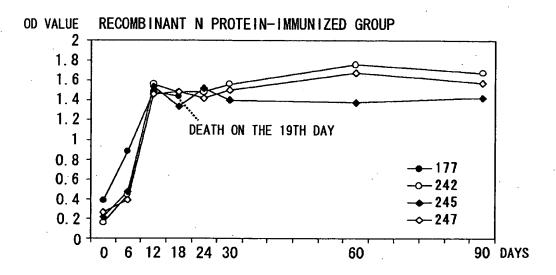
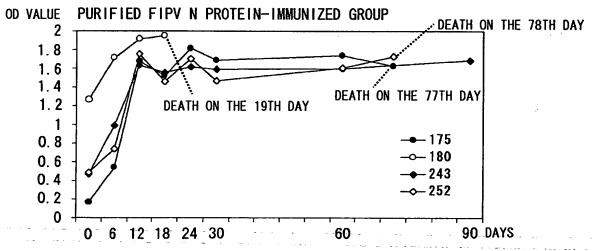


FIG. 16





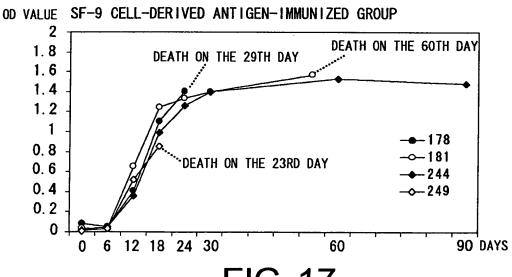


FIG. 17

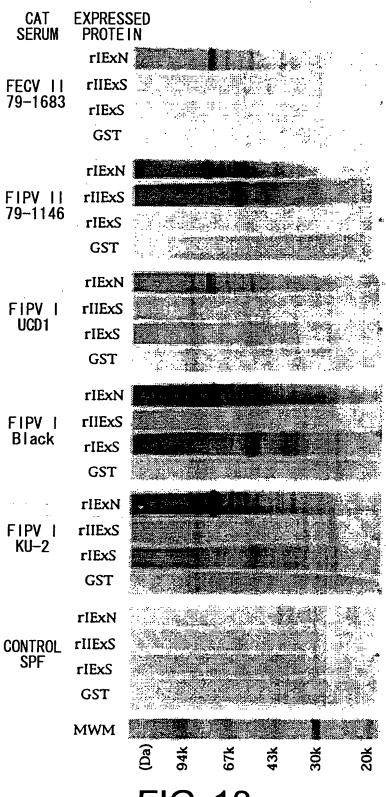


FIG. 18

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

□ BLACK BORDERS
□ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
□ FADED TEXT OR DRAWING
□ BLURRED OR ILLEGIBLE TEXT OR DRAWING
□ SKEWED/SLANTED IMAGES
□ COLOR OR BLACK AND WHITE PHOTOGRAPHS
□ GRAY SCALE DOCUMENTS
□ LINES OR MARKS ON ORIGINAL DOCUMENT
□ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

IMAGES ARE BEST AVAILABLE COPY.

☐ OTHER:

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.